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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,963	09/22/2003	Satoru Inarida	648.43135X00	4963
20457	7590 12/14/20	5	EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP			MCCARRY J	R, ROBERT J
SUITE 1800		IKEEI	ART UNIT	PAPER NUMBER
	N, VA 22209-3873		3617	

DATE MAILED: 12/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	s)	
	10/664,963	INARIDA, SATORU		
Office Action Summary	Examiner	Art Unit		
	Robert J. McCarry, Jr.	3617		
The MAILING DATE of this communicated for Reply	ation appears on the cover sheet t	vith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MA - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply with Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF THIS COMMUN 37 CFR 1.136(a). In no event, however, may a lication. tory period will apply and will expire SIX (6) MO II, by statute, cause the application to become	ICATION. In reply be timely filed INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed	on 28 November 2005.			
•)⊠ This action is non-final.			
3) Since this application is in condition for	<i>'</i> —	tters, prosecution as to the merits is		
closed in accordance with the practice				
Disposition of Claims				
4)⊠ Claim(s) <u>1,6 and 7</u> is/are pending in th	ne application.			
4a) Of the above claim(s) is/are				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1, 6 and 7</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction	on and/or election requirement.			
Application Papers				
9) The specification is objected to by the	Examiner.			
10) The drawing(s) filed on is/are: a	a)□ accepted or b)□ objected t	b by the Examiner.		
Applicant may not request that any objecti	on to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the				
11)☐ The oath or declaration is objected to I	by the Examiner. Note the attach	ed Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
·	ocuments have been received. ocuments have been received in the priority documents have bee al Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stage		
Attachment(s)	_			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO) Information Disclosure Statement(s) (PTO-1449 or Proper No(s)/Mail Date 	O-948) Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) 		
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DETAILED ACTION

In view of the Appeal Brief filed on 11/28/2005, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar (US 6,591,758).

Page 3

Art Unit: 3617

Kumar discloses a railway car drive system comprised of a first railway car, shown in figure 3, having a power generation means 102, a power converter 106 and a plurality of driving motors 108, a second railway car, also shown in figure 3, having a power converter 306 and a plurality of driving motors 308, and also a second power generation means 302. The driving motors use power from the generation means 102, 302 of each car to operate the respective driving motors. A power storage means is also incorporated into the system. The figures show the energy storage means to be mounted on a separate third railcar. However, the disclose states in column 6, lines 32-49 that the energy storage means can be fitted onto the same car with the other aforementioned components. The power storage means are further comprised of various subsystems for collecting energy from the drive system. Rechargeable battery subsystems, flywheel subsystems and ultra-capacitor subsystems are used, as stated in column 5, lines 30-35. The energy storage means collects energy from either regenerative braking of the driving motors 108, 308 or from the power generation means 102, 302 for later use to drive the railway car. The first railway car can then power the second railway car indirectly, through the power storage tender. Power from the first car is stored on the tender and the second car would pull power from the tender. Therefor indirectly being powered by the first car. The system is further comprised of a power management system 502 for controlling the use of energy for driving the railway car. A processor 506 associated with the system uses present or upcoming track conditions to determine power storage and power transfer requirements

as well as possible energy storage opportunities. This system is described in column 10, lines 40-65. Figure 5 shows a block diagram showing energy generation and storage.

Kumar discloses the system as described above. However, Kumar does not distinctly state that an energy management processor is installed on each car. It would have been an obvious multiplication of parts to one of ordinary skill in the art to have installed a processor to each power car so that each car can be monitored separately and therefor not overload a single processor. Also the addition of processors would allow for more efficient control of the power on each car as opposed to a single processor and would allow for the additional processors to back up a single processor in the event of a malfunction.

Response to Arguments

Applicant's arguments with respect to claims 1, 6 and 7 have been considered but are most in view of the new ground(s) of rejection.

As stated in the rejection above, the first railway car indirectly powers the second railway car through the power storage tender. Power from the first railway car is stored in the tender and then pulled from the tender to power the second railway car. Therefore the first railway car indirectly powers the second car through the tender.

Regarding the appeal brief filed, the brief is actually a non-compliant brief. Had prosecution not been reopened the applicant would have received a Notification of Non-Compliant Appeal Brief (PTO-462. The appeal brief shows a summary of the invention

Application/Control Number: 10/664,963 Page 5

Art Unit: 3617

going into detail of the invention showing advantages of the invention over the prior art. The correct heading should read "Summary of Claimed Subject Matter" instead of the present "Summary of Invention". Also the brief does not contain a concise explanation of the subject matter defined in each of the independent claims involved in the appeal, referring to the specification by page and line number and to the drawing, if any, by reference characters. This information is simply for the applicant's reference for future appeal briefs filed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert J. McCarry, Jr. whose telephone number is (571) 272-6683. The examiner can normally be reached on Monday through Friday 7:00am to 3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S. Joseph Morano can be reached on (571) 272-6684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/664,963 Page 6

Art Unit: 3617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert J. McCarry, Jr.

Examiner Art Unit 3617

RJM December 9, 2005

> S. JOSEPH MORANO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600